

EE Department Seminar

December 13, 2010, Monday, 3 p.m.
Yorgo I Stefanopoulos Meeting Lounge (KB 217)

On Formation Control and Distributed Agreement in Swarms

Assoc. Prof. Veysel GAZI

In this talk we will introduce the formation control and distributed agreement problems in multi-agent dynamic systems or simply swarms. Then we will present a formation control method based on a nonlinear output regulation technique. The method is also suitable for achieving various formation maneuvers. Then we will briefly present a result on distributed agreement in discrete-time swarms under asynchronous operation and time delays in addition to unidirectional communication and dynamic neighborhood.

Veysel Gazi obtained his BS degree in Electrical and Electronics Engineering from Middle East Technical University in 1996. He obtained his MS and PhD degrees in Electrical Engineering from The Ohio State University in 1998 and 2002, respectively. He served as an Assistant Professor at Atılım University-Department of Electrical and Electronics Engineering from September 2002 to September 2004. He served at TOBB University of Economics and Technology as an Assistant Professor from September 2004 to March 2006 and as an Associate Professor from March 2006 to August 2010.